eries of the past are needed, rather than new principles which must lie dormant until human ingenuity can devise the means to make them available. Invention has been busy to design appliances that will make, for instance, the electric the applications for new patents at the patent office in Washington have been out 2000 per month for the year. In the space at command we can only in the

RESCURIGITY. should force it into the greatest number of diverse channels and agencies. The most successful employment of electricity most successful employment of electricity as a motor has been made in this country, the engine being known as the Daft electric motor. This differs from the Siemens electric current, which operates the motor through an insulated rail in the eenter of the track. The actual performance at the trial of this device conformance at the trial of this device the trial of the trial nter of the track. The actual performance at the trial of this device con-sisted in hauling, by a two-ton motor, of "Well, it was a man we will call Berseveral accumulators under the seats, which, once filled operated the ear for seven hours. The current of electricity is communicated by insulated wires to a Siemens dynamo machine, acting as a motor, and connected with the axle of the wheel. As soon as the communication between the accumulators and the dynamo machine is effected the electric current sets the armature of the motor in revolution, and the nower is conveyed. eurrent sets the armature of the motor in revolution, and the power is conveyed to a pulley fastened on the same armature as the axle. The machine is easily managed and proved a perfect success.

The machine is casily managed and proved a perfect success.

ne of the most curious is an automated sectiver, it being a receiver on each end f a forked handle, hinged at the middle.

There sat the young wife anxious because of the long absence of her husband. I have where he was, and she said. By pressing the two parts forming the handle a receiver is held firmly against each car, greatly facilitating the con-

Alpine) tunnel, making the third of seven miles in length, while the The first took fourteen and mense bridge connecting the sities of New York and Brooklyn, which was thrown open to the public in May, Work on the structure was begun July 2, 1870; pridge is 5989 feet, and it is 135 feet ove the water. The river span of 1595 feet is suspended by four cables, each fifteen and three-fourths inches in diameter tons each. The total cost of the strucis not far from \$14,000,000. THE CANTILEVER BRIDGE

month, is remarkable as bringing into use the cantilever for the first time in bridge-building in this country. The bridge is 910 feet long between the center of the anchorage piers, the clear space between the two towers being 470 feet, and its force for a year, and one day as I was shore heavy iron levers, supported by steel towers, until they meet at the cen-ter of the stream, the shore ends being anchored to massive massury. The levers are trussed to strengthen them, and the bridge is regarded as the strongest in the year past, been meager. Even the total

or searchest these makings of the control of the co

experiment that if a powerful jet of air, carrying particles of quartz, ores, or other minerals, was thrown against a hard substance the minerals could be dashed or broken to pieces. The new system has been adapted to the pulverizing of ores with great success. The novel feature of the system is to have two jets of air or steam, jboth laden with the mineral, in the form of a coarse powder, pass through nozzles placed in a line facing each other. The particles are then thrown forward against each other and are ground to an almost impalpable powder. periment that if a powerful jet of ai

AEBIAL NAVIGATION The progress in science and the useful arts for the past year, says the Chicago Veics, is marked by none of the great discoveries and improvements that have characterized many previous years of the last half of the nineteenth century. The past decade has been so tich in discoveries and inventions that it seems as if the world had reached a point where mechanical appliances to utilize the discoveries of the past are needed rather than the world.

IN BAILWAY BUILDING the novelty of the year is the laying out of a railroad in Palestine, from Acre to the Jordan and the Sea of Tiberias. Start-ing from Acre, on the Mediteranean sea, ular that the demand for them shall become universal among the people, rather than to bring out new principles that will be useless simply from the want of mechanical means to utilize them. As a result of the following the people of the following the people of the following the people of the following the fol light or the telephone so simple and popular that the demand for them shall become universal among the people, rather than to bring out new principles that will be useless simply from the want of mechanical means to utilize them. As a result of this the progress of the year has been on the practical or mechanical side of scientific research rather than upon the theoretical and speculative. We shall not, therefore, be surprised to find that the energy of the year is shown in the adaptation of means to ends rather than in the opposite direction. As illustrative of this it may be mentioned that for the past three years, but exceed those of any other previous year since 1871. The total mileage of railways in this country at the close of last year round numbers, 120,000 miles.

SAVED FROM A CRIMINAL LIFE. many more important inventions of the A Reminiscence from the Official Experience of Police Lieut. Wersel.

> him regarding the record of Palmer, the denuded "Yes, I had a good many experience

in Electric Lighting and proved a perfect success. In Electric Lighting has been almost numberless, adapting the wonderful fluid to various uses as an illuminator. During the year more than a dozen steamers plying because New York and Liverpool have been fitted with electric-lighting machinery, while there is not a sity of any chinery, while there is not a sity of any stream or less extent, use electricity for a greater or less extent, use electricity for the first time in his life he became a thief. He stole eight cents worth of bread. He stole eight cents worth of bread. The first time in his life he became a thief. He stole eight cents worth of bread. The first time in his life he became a thief. He stole eight cents worth of bread. The first time in his life he became a thief. He stole eight cents worth of bread. The first time in his life he became a thief. He stole eight cents worth of bread. The baker had been much annoyed during the past few weeks by having his bread stolen, and he was watching to catch the thief, swearing that if he ever during the past few weeks by having his bread stolen, and he was watching to catch the thief, swearing that if he ever during the past few weeks by having his bread stolen, and he was watching to catch the thief, swearing that if he ever during the past few centuries. What the ancients had not succeeded in accomplish during the past few centuries. What the ancients had not succeeded in accomplish during the past few centuries. What the ancients had not succeeded in accomplish time in his life he became a thief. He stole eight cents wooth of onearly two centuries. What the ancients had not succeeded in accomp tation was too great, and for the first rer or less extent, use electricity for rience of Bernard, he was detected and me purpose. In the telephone the arrested. When he was brought to the provements have consisted mainly in liances for increasing the volume and charge as lieutenant, he told me his cir-

> milk, and I don't know what has become of him. It is time he was at his work, too. When I told her he had been arrested for stealing bread for her, the poor woman burst right out crying. I tried woman burst right out crying. I tried to console her, and I told her I would see what I could do for her husband. Then I went to see Tom Campbell, who was then prosecuting attorney, and got him interested, and then we told Judge Merchantabout it. Old Judge Merchant, you know, used to be a regular terror as well. Just after the removal of the

when he was on the bench as police judge. He was especially hard on thieves. He

A WORK OF ART

After Many Centuries of Patient, Careful Work.

Duomo of Florence-The Crux of Church Builders.

Florence correspondence: Twenty-five years ago probably few lovers of art in Florence or elsewhere would have dared to hope that this century would see ac-complished what had been dreamed of so long—the completion of the facade of our beautiful cathedral, otherwise "St. Mary of the Flower." Still less would they have dared to hope that the undertaking, if carried out, would be a success in an artissic point of view. The facade is always the crux of church-builders, and in the case of a building so manifecant in the case of a building so magnificent in detail and so grand in proportion as the

DUOMO OF FLORENCE.

the difficulties seemed almost insur out his design it would have corresponded to the rest of the building, the Campanile not being then begun. Gotto's design was much more elaborate, but it never reached completion. Whether public taste was dissatisfied with it, or whether some other reason the work was abandoned caunot now be known. Until near the close of the sixteenth century

the facade remained in that half-finished state. It was then torn down, and noth-No department of science has been so inviting to human ingenuity as electricity, and so many and varied are the devices for adapting the subtle fluid to the most dissimilar uses that it seems as if a rivalry existed among inventors as to who should force it into the greatest number.

Cincinnati Commercial Gazette: "I was then torm down, and nothing remains of the fragments save some statues in the cathedral and those which stand at the of the Poggio Imperiale outside the Porta Romana, and which time and storms have defaced to a sad extent. The front wall of the church being thus denuded VARIOUS FAMOUS ARTISTS

instituted the competition, nothing defin-ite had been resolved upon, and the whole "Well, it was a man we will call Berdistance of a little over a mile, up a grade of seventy feet to the mile, in of leven minutes. Although the motor was too small to do what was expected of it, the success of the experiment was apprentice learning a trade, and a supernities learning as trade, and a supernities learning a supernities apprentice learning a trade, and, of occasions, and taken down when these course, was not earning enough to support a wife, but he was paying attention to this young girl, and—well, he told me he married her to save her from disbeen erected. In 1661 a canvas facade,

WORK OF RESTORATION was begun. With such examples of failure as these, it is not wonderful that the facade should have remained untouched our reports upon the subject last July.

lem, their project did not excite much enthusiasm among the people. The committee, however, worked on in a quiet way and succeeded in obtaining a considerable sum of money, and in opening a competition for designs, which proved eminently unsatisfactory, and again gave the sum of the people in the competition of the signs, which proved the people in the consumption of opium per diem, weight on admission and for the four tollowing weeks. If detained so long. None of them were ever permitted to have the competition of the people in the committee opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. It gives their age, number of years they have contracted the habit, their consumption of opium daily. occasion to the unbelieving to decry the scheme. At length, nine eminent artists were solicited to offer plans, and after and some were in a terrible condition of were solicited to oner plans, and after long and deliberate examination, that of Emilio de Fabbrls, then professor in the Academy of Fine Arts, in Florence, was pronounced worthy of the subject. This was in 1868. The next year King Victor Emmanuel laid the corner-stone of Chinese patients he says:

of the new facade, and contributed of the new facade, and contributed of the new facade, and contributed afford the greatest smokers are men who can afford the expense, and are generally more fat than muscular; but I cannot more fat than muscular; but I cannot remains of the old facade was begun, the transference in 1871 of the capital from didn't care so much for drunks and minor offcuses, but when he came to thieves he was terribly severe. The morning of the trial Bernard sat pale and trembling in the Police Court. on the western side pumped of the western side pumped on the western side into resembling in the rolles Court, the short time of her prosperty (and with every prospect of its continuance), it seemed, on one hand, hardly the time of her prosperty (and with every prospect of its continuance). three mouths, and he was worried about his poor wife and baby. Finally the judge reached his case, and calling him mence the building; but at that juncture

up before him he raised his spectacles and said: Bernard, I'll give you thirty days and \$50 fine, but I'll suspend the sentence on condition that you never steal any more. The poor fellow was almost overcome with emotion as he thanked the judge. Old Gilfallen fairly stormed with rage, for he had done some hard swearing to convict him, and he hard swearing to convict him, and he wanted to see him punished. He started out of the court-room swearing mad, and Judge Marchant called him back, and pointed to the two stolen loaves of bread him large letters on a list affixed to the barri-

effect either. I counted their power burst out in applause and cheered him as he pased out.

"Well, sir, that was over seven years as a speed out.

"Well, sir, that was over seven years and liding the that am again until about a year sgo. I had then been off the several unear and wind. They can be provided to the counted their temperature, neither of which as altered by smoking in the alightest degree. Three mase is equivalent to make me is along the theorem from sun and wind. They can be proved by smoking in the substitution of the several unear angents to make me is along the to load for the several three and wind. They can be all the several unear angents to make their temperature, neither of which as altered by smoking in the alightest down at least the business of matter and the provided by smoking in the substitution of the several unear angents to make the lightest degree. Three mase is equivalent to make me is along the bound in the counted their temperature, neither of which was altered by smoking in the substitution and the lightest down as the proposed to the bound in the bound of the counted their temperature, neither of which was altered by smoking in the slightest down as the proposed to the bound of the proposed to the proposed to the proposed the proposed to the proposed to

on from bad to worse until I and my family were ruined, but when I left that court room I resolved that I would make a man of myself and never again be brought to such a degrading position as a thief.'

"I tell you it made me feel good to see assumed the place of heave. Reasons of State, however, or more probably the fact that the unveiling is only a temporary and experimental one, obliged them to decline the invitation, and the Prince of Cariguano, cousin of Vietor Emmanuel and honorary presented the place of heave. The time

LYTTON'S LOVES.

apparent than real; meanwhile it gives the newspapers something to talk about in these dull days before Christmas. The Prince of Carignano duly arrived at the Pitti palace Monday, the 3d, and was received with the honors due to the representative of royalty. On Tuesday morning it was officially announced that the work of preparation being behindhand, the unveiling would be deforred till Wednesday; a lucky postponement, as Tuesday proved to be wet and foggy. Wednesday morning dawned cloudless after a night of wind and storm, with the warm sunshine, which is nowhere more needed than for the glerifying of these dull-tinted Italian cities. Every train brought crowds of people from the neighboring towns, and by 1 o'clock it was impossible to get anywhere near the cathe-Interesting Facts About the Eccentri Novelist-The Episode with a Pretty Gypsy, Who

possible to get anywhere near the cathedral. The usual want of order in

THE POLICE REGULATIONS

ome proceeding to reach their destina-ion. At 1:45 o'clock the archbishop

of the greatest accomplishments of the

Of Chinese patients he says:

auted to Marry on Peculiar Condition -His Attachment for Lady Caroline Lamb.

The recently published autobiography of E. Bulwer-Lytton furnishes some interesting facts about that peculiar character. Before leaving Cambridge he had anxiohed his every with was duly apparent. Holders of reserved seats on the platform, which had been acter. Before leaving Cambridge he had enriched his experience with some vacation adventures, including an encounter with a highwayman, a night in a lonely cottage where an attempt was made to murder him, and an amour with a pretty young gypsy, in whose camp he spent five or six days of romantic dalliance.

"One morning she was unusually silent and reserved. I asked her, reproachfully, why she was so cold.
"'Tell me,' she said abruntly 'tell me pulsory traveling would become inrected for the occasion, could not get near them, and when the guests—various noble ladies, Italian and foreign, who had been invited to witness the proceed-ings from the Loggia del Rigallo, on the orner opposite the Duomo-arrived in heir carriages, it was a long and weariwhy she was so cold.
"Tell me, she said abruptly, tell me

and the other priests of the cathedral, in gorgeous robes, made their appearance, and were received at the foot of the platform by the mayor (Prince Corsini) and other authorities, civil and military; "Tell me,' she said abruptly, 'tell me truly, do you love me?"
"I do, indeed.' And so I thought.
"Will you marry me, then?"
"Marry you?' I cried, aghast. 'Marry? alas! I would not deceive you—that is impossible."
"I don't mean,' she cried impetuous—le hought would believe that this compulsory traveling would become instinctive, as with the sheep in Spain, Now, during the long course of ages, let velleys become converted into estuaries, and then into wider and wider arms of the sea, and still he could well believe that the impulse which leads the pinion—ed goose to scramble northward would become instinctive, as with the sheep in Spain, Now, during the long course of ages, let velleys become converted into estuaries, and then into wider and wider arms of the sea, and still he could well believe that this compulsory.

out his designs. And it is no small glory for the family of the deceased artist that their name should be associated with one but looked much younger than she was; thanks, perhaps, to a slight, rounded figure and a childlike mode of wearing

Opium and its effect on the human physiology are the subject of a recent letter frem Consul Seymour, at Canton, to the State Department. The testimony of medical authorities cited by him seems to be at variance with the generally accepted theory that opium-smoking is extremely injurious. Mr. Seymour says that two physicians, Dr. John C. Ken, of the Medical Missionary Society's Hospital at Canton, and Dr. Ayres, colonial surgeon at Hong Kong, made simultane.

inace (equal ten grains) and upwards of opium daily. It gives their age, number were treated on the merits of their cases.

case at Brocket, and begged the favor of their company to hear her. Strange to say, it was a summons generally observed, and those who obeyed did not regret the loss of their sleep; for when the audience had assembled she soon relinquished the solemn, keys of the organ and her talk.

COTTON FACTORS,

COTTON FACTORS,

and he saw these little birds vainly burdown walls, over which they were constantly flitting, without thus perceiving that the walls were not nearly thick enough for their nests. After an exhaustive account of various traits of instinct, and difficulty. find that opium smoking causes emaciaon the list, his daily consumption being fifteen mace (or 150 grains). He had been an opium-smoker for thirty years; he comes into jail weighing 107 pounds, does not lose weight at all, but in three

weeks rises to 110 pounds, at the end of the fourth week weighing the same. It appears to me that the opium smoker suffers much less from the enforced defor I have had many of them specially "In fact, the great principle of opium, norphia, in smoking, seems to vanish; ertainly it in no way affects the smokers." Now, I have had opium-eaters under my care in jails in Iudia and Assam, and

among Rhalassic crews on board ships, and if they had been deprived of their opium as the opium-smokers have been, the consequences would have been seristormed with rage, for he had done some hard swearing to convict him, and he work was given, and since 1875 it has broceeded without interruction. To out of the court-room swearing mad, and Judge Marchant called him back, and pointed to the two stolen loaves of bread which were lying on the desk in the court-room, but Gilfallen was so mad he wouldn't touch 'em. After he had gone surface across the front of the church.

THE FIRST WORK, after taking away the plaster remains, was to build a solid wall of masonry into which were along. As he wrapped up the two loaves and started home with the blocks of marble could be inswinged up the two loaves and started home with them the crowd in the court-room but distinct animals a gradation in the consume half an ounce daily, and I can understand the fascination of that habit, and fully appreciate the the difficulty of loaves and started home was to build a solid wall of masonry into which the blocks of marble could be inswinged up the two loaves and started home which the blocks of marble could be inswinged up the two loaves and started home which the blocks of marble could be inswinged up the two loaves and started home which the blocks of marble could be inswinged up the two loaves and started home was to build a solid wall of masonry into which the blocks of marble could be inswinged up the two loaves and started home and the broad, may I have it? and the judge the work was given, and since 1875 it has proceeded without interruction. To stimulate generosity the names of those out of the court-room but Gilfalen was so mad be consume half an ounce daily, and I can understand the fascination of that habit.

"I said to her, when we were all going and fully appreciate the the difficulty of the farmer's was to build a solid wall of masonry into which the bread, may I have it? and the judge of the farmer's was to build a solid wall of masonry into which the bread, may I have it? and the judge of the farmer's was to build in alterer to an intimate friend.

"I said to her, when

A posthumous essay on "Instinct," by Mr. Charles Darwin, was recently read to the fellows of the Linnæan Society, London, by Mr. Romanes, the secretary, in whose care the notes of the essay had been left. The paper, which treated of the instincts of animals, and the bearing of the subject associated with the famous naturalist's name, was originally written for The Origin of Species, but never published. It discussed the migration of birds and mammals, and after narrating a great series of curious facts, concluded with the inference that though there were many aspects of the question which

es. The prince stood on the period of the committee, and shook hands with the archbishop meaning and and nothing and and nothing the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the populace to flock about their belowed booton and express their feeling the meaning she looked then! Alas! I went further the with the muzzle on the muz

the subject. It struck him as a strange coincidence that the insects should have

There was, indeed, a wild originality in her talk, combining great and sudden contrasts, from deep pathos to infantile adaptations of inherited instincts to suit drollery—now sentimental, now shrewd, it sparkled with anecdotes of the great riations all tend, in some way or other, to

suffers much less from the enforced deprivation of the accustomed luxury at once than the tobacco-smoker. There is certainly no loss of sleep to any extent, for I have been to any extent, flattered for it received, the substitution of the accustomed luxury at once than the tobacco-smoker. There is certainly no loss of sleep to any extent, for I have been thus acquired others are so complex and wonderful that they must have been specially endowed, and thus overthrow the theory. Bearing in mind the facts given on the acquired.

were many aspects of the question which admitted of no immediate explanation, the migratory instinct was inherited from ancestors who had to compass for the

platform by the mayor (Prince corsult and other authorities, civil and military; and other authorities, civil and military; at 2 o'clock precisely came the Prince of Carignano, in a grand court carriage, and was welcomed with all the honors. The ceremony itself was very simple and brief. The prince gave the signal to let fall the curtains from the facade, the bands struck up the royal march, the bells pealed out a joyful strain, and the people applauded at the top of their voices. The prince stood a few minutes amile conversing with the archbishop members of the committee, and shook hands with of the correct pounds and that, by the aid of the unknown power by which many animals (and saving the cording to cordinate the that the imposses that the imposses that the imposses that the imposses that th

point of separation from her husband, when she fell in love with Bulwer, who was eighteen years younger than herself.

was eighteen years younger than herself.

"Lady Caroline Lamb was then between thirty and forty [she was thirty-nine and Bulwer was twenty-one—ED.],
but looked much younger than herself.

world, and of the eminent persons with whom she had been brought, up or been familiarly intimate; and, ten minutes after, it became gravely eloquent with redid not doubt that intelligence and expensions. ligious enthusiasm, or shot off into metaphysical speculations—sometimes absurd, sometimes profound—generally suggestive and interesting. A creature of caprice and impulse and whim, her manner, her talk and her character shifted their colors as rapidly as those of a morning with a message that she was cunicularius, in South America, makes a playing the organ that stood on the stair-

solema keys of the organ, and her talk of various traits of instinct, and difficu solema keys of the organ, and her talk would be so brilliant and amusing that the dawn found one still listening, spell-bound without a thought of bed.

"She interested me chiefly, however, by her recollections and graphic descriptions of Byron, with whom her intimacy had lasted during the three most brilliant years of his life in England, and whom whom they had violently over the point of view whether it is possible that they could have been acquired through the means indicated on our theory, or whether, even if the simpler ones could have been thus acquired.

flattered, for it represented him very much as, during the zenith of his social fashion, he had wished the female part of the world to believe him. At the time I now speak of there was no bitter-itation, of hereditary actions and dispositions in the later of the later action of self-originating tricks or modification of instinct, or through training and habit, aided in some slight degree by imitation, of hereditary actions and dispositions in the later action of self-originating tricks or modification of instinct, or through training and habit, aided in some slight degree by imitation, of hereditary actions and ness in her talk of him, and whatever dispositions in our domesticated animals, fault she found in his character, she fired and their parallelism (subject to having up in his defense if anyone else abused less time) to the instincts of animals in state of nature, bearing in mind that i One day, on arriving at Brocket, Bul-wer found that he had been supplanted by a Mr. Russell, a natural son of the Duke of Bedford. The conclusion is

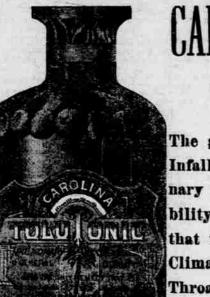
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H. BISCHOFF & CO. she chose to do so. Her powers of conversation were remarkable. In one of Lord Byron's letters to her, which she showed me, he said: You are the only woman I know who never bored me.

The attitude exactly the same, and in several instances the attitude of the feigners and of the really dead were as unlike as they possibly could be. Bird-nesting and the habitations of other animals

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